



The Power to Question

CERTIFICATE OF ANALYSIS

Catalog Number: sc-503515
Lot Number: SAMPLE
Product Name: Benzylpenicillin Diethylaminoethyl Ester Hydroiodide
CAS Number: 808-71-9
Molecular Formula: $C_{22}H_{32}IN_3O_4S$
Molecular Weight: 561.48
Native Source: Synthetic

Test	Specification	Result
Appearance		White solid
Identification (1H-NMR)	Consistent with structure	Complies
Identification (Mass Spectrometry)	Consistent with structure	Complies
Purity (HPLC)	> 95%	100%
Purity (TLC)		98%
Melting Point		140 - 163 °C
Specific Rotation		+174.7° (c = 0.2, Methanol)
Carbon Content	47.06%	46.98%
Chloroform		1.5%
Hydrogen Content	5.74%	Complies
Iodide		20.48% by Ion Chromatography
Nitrogen Content	7.48%	7.34%

Satisfaction Guarantee: We appreciate your business and are committed to providing the highest level of quality and service. Any product that does not meet the performance standards indicated in our product literature will be replaced at no charge. Our policy is valid for one year from the date of your purchase.

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